

REFERENCES

Books

- Bruen, Aiden., and Forcinito, Mario. (2005). *Cryptography, Information Theory, and Error – Correction: A Handbook for the 21st Century*. John Wiley & Sons, Inc.
- Celcius, Matius. *Kriptografi Python*.
- Federal Office for Information Security. (2008). *Cryptographic Modules, Security Level “Enhanced”*. Bundesamt fur Sicherheit in der Informationstechnik.
- Halkis, Mhd. (2022). *Filsafat Ilmu Pertahanan Suatu Pengantar*. Jakarta: Unhan Press.
- Hardani et al. (2020). *Metode Penelitian Kualitatif & Kuantitatif*. CV Pustaka Ilmu.
- Husain, Usman., and Purnomo. (2001). *Metode Penelitian Sosial*. Jakarta: PT Bumi Aksaran.
- Kromodimoeljo, Sentot. (2009). *Teori & Aplikasi Kriptografi*. SPK IT Consulting.
- Margono. (2004). *Metodologi Penelitian Pendidikan*. Jakarta: Rineka Cipta.
- Martin, Keith. (2017). *Everyday Cryptography 2nd Edition: Fundamental Principles & Applications*. Oxford University Press.
- Menezes, Alfred., Oorschot, Paul and Vanstone, Scott. (1997). *Handbook of Applied Cryptography*. CRC Press, Inc.
- Nan, Zhang. (2005). *Transform Based and Search Aware Text Compression Schemes and Compressed Domain Text Retrieval*. Dissertation of Doctor of Philosophy, College of Engineering and Computer Science, University of Central Florida.
- Nemati, Hamid., and Yang, Li. (2011). *Applied Cryptography for Cyber Security and Defense: Information Encryption and Ciphering*. IGI Global.
- Radescu, R., and Gliga, R. (2004). *An Introduction to Steganography*. UPB

Scientific Bulletin, Series C: Electrical Engineering.

- Salomon, David. (2004). *Data Compression 3rd Edition The Complete Reference*. New York: Springer.
- Storer, James. (1992). *Image and Text Compression*. New York: Springer Science + Business Media.
- Sugiono. (2006). *Metode Penelitian Kuantitatif Kualitatif dan R&B*. Bandung: Alfabeta.
- Suhirwan. (2023). *Ilmu Pertahanan: Teori & Praktik*. Garut: CV Aksara Global Akademia.
- Syahrul, Elfitrin. (2011). *Lossless and Nearly – Lossless Image Compression Based on Combinatorial Transforms*. *Universite De Bourgogne*.
- Zimmermann, Phil. (2004). *An Introduction to Cryptography*. PGP Corporation.

Journals

- Agnihotri, Devavrat., et al. (2020). *A Secure Document Archive Implemented using Multiple Encryption*. IEEE.
- Alanazi, Hamdan et al. (2010). *New Comparative Study Between DES, 3DES and AES Within Nine Factors*. *Journal of Computing*, Vol 2 Issue 3.
- Alsuwaiedi, Hasan Kadhim., Rahma, Abdul Monem. (2023). *A New Modified DES Algorithm Based on The Development of Binary Encryption Functions*. Elsevier.
- Atika, Christy., et al. (2018). *Cryptography Triple Data Encryption Standard (3DES) for Digital Image Security*. *Scientific Journal of Informatics*, Vol 5 No 2.
- Commey, Daniel et al. (2020). *Performance Comparison of 3DES, AES, Blowfish and RSA for Dataset Classification and Encryption in Cloud Data Storage*. *International Journal of Computer Applications*, Vol 177 No 40.

- Fadillah, Nurul., and Rizka Gunawan, Chicha. (2019). *Mendeteksi Keakuratan Metode Noise Salt and Pepper dengan Median Filter*. Jurnal Informatika, Vol. 6 No. 1.
- Faheem, Zaid Bin., et al. (2023). *Image Watermarking Using Least Significant Bit and Canny Edge Detection*. MDPI.
- Gupta, Subhash Chand., and Kumar, Vikas. (2019). *Minimizing the Security Risks in Hybrid Cloud Networks with the Aid of Optimal Triple Data Encryption Standard Algorithm*. International Journal of Engineering and Advanced Technology (IJEAT), Vol 8 No 6.
- Hacimurtazaoglu, Murat., and Tutuncu, Kemal. (2022). *LSB-Based Pre-Embedding Video Steganography with Rotating & Shifting Poly-Pattern Block Matrix*. PeerJ Computer Science.
- Hadi, Parma., and Saputra Eka. (2019). *Triple DES Cryptography Algorithm and LSB Steganography as a Combined Method in Data Security*. Jurnal Teknologi Informasi dan Ilmu Komputer.
- Himawan., Arisantoso., and Saefullah, Asep. (2014). *Perbandingan Kinerja Penggunaan Teknik Kompresi Data Menggunakan Algoritma Loseless Compression pada Data Teks*. STMIK Amikom Yogyakarta.
- Iswardani Witarti, Denik., and Tyar Armandha, Semmy. (2015). *Tinjauan Teoretis Konsepsi Pertahanan dan Keamanan di Era Globalisasi Industri Pertahanan*. Jurnal Pertahanan, Vol 5 No 3.
- Kumar, Aditya., and Swain, Gandharba. (2019). *High Fidelity Based Reversible Data Hiding Using Modified LSB Matching and Pixel Difference*. Elsevier.
- Lu, Tzu – Chuen., and Yang, Ping – Chung., and Jana, Biswapati. (2021). *Improving The Reversible LSB Matching Scheme Based on The Likelihood Re-Encoding Strategy*. MDPI.
- Mandal, Pratap Chandra., Mukherjee, Imon., and Chatterji, B N. (2021). *High Capacity Steganography based on IWT using Eight-Way CVD and n-LSB Secure Communication*. Elsevier.

- Mardhani, Dewie., Josias Simon, Arthur., and Hanita, Margaretha. (2020). *Keamanan dan Pertahanan Dalam Studi Ketahanan Nasional Guna Mewujudkan Sistem Keamanan Nasional*. Jurnal Pertahanan & Bela Negara, Vol 10 No 3.
- Nurdin., et al. (2022). *SMS Encryption Application Using 3DES (Triple Data Encryption Standard) Algorithm Based on Android*. Journal of Physics: Conference Series.
- Ramya, R., and Vijaya, V. (2018). *Triple DES: Privacy Preserving in Big Data Healthcare*. International Journal of Parallel Programming.
- Rahman, Shahid., et al. (2023). *A Huffman Code LSB Based Image Steganography Technique Using Multi-Level Encryption and Achromatic Component of An Image*. Scientific Reports.
- Ramachandra, Mohan Naik., et al. (2022). *An Efficient and Secure Big Data Storage in Cloud Environment by Using Triple Data Encryption Standard*. MDPI.
- Rosal, De. (2019). *Improved Payload Capacity in LSB Image Staganography Uses Dilated Hybrid Edge Detection*. Elsevier.
- Rustad, Supriadi., et al. (2020). *Inverted LSB Image Steganography using Adaptive Pattern to Improve Imperceptibility*. Journal of King Saud University.
- Saadi, Saadi Mohammed. (2022). *A Modern Mechanism for Generating 3DES Algorithm Keys Based on Rubik's Cube*. International Journal of Scientific Research in Science, Engineering and Technology, Vol 9 No 6.
- Safaruddin. (2022). *Ketahanan Nasional*. Jurnal Kotamo, Vol 2 No 3.
- Sharma, Dilip Kumar., et al (2021). *A Review on Various Cryptographic Techniques & Algorithms*. Elsevier.
- Shashikiran, B S., Shaila, K., and Venugopal, K R. (2021). *Minimal Block Knight's Tour and Edge with LSB Pixel Replacement Based Encrypted Image Steganography*. SN Computer Science.
- Shawkat, Shihab A., Tuama, Bilal A., and Al Zarabanchi, Israa. (2022).

Proposed System for Data Security in Distributed Computing in Using Triple Data Encryption Standard and Rivest Shamir Adlemen. International Journal of Electrical and Computer Engineering (IJECE), Vol 12 No 6.

- Vuppala, Akhshita., et al. (2020). *An Efficient Optimization and Secure Triple Data Encryption Standard Using Enhanced Key Scheduling Algorithm.* Elsevier.
- Wang, Yanting., Tang, Mingwei., and Wang Zhen. (2020). *High-Capacity Adaptive Steganography based on LSB and Hamming Code.* Elsevier.

Articels

- Badan Siber dan Sandi Negara. (2022). *Lanskap Keamanan Siber Indonesia 2022.*
- Dwi Sulisworo, Tri., Wahyuningsih, Dikdik., and Baehaqi, Arif. (2012). *Geostrategi Indonesia.* Civic Study Program, Faculty of Teacher Training and Education, Ahmad Dahlan University.
- Khanna, R. K., and Singh, Kulbir. *Image Compression Using Fractional Transform.* Master of Engineering in Electronics Communication, Department of Electronics & Communication Engineering, Thapar Institue of Engineering and Technology.
- Saputra, Roni. (2013). *Statistik Terapan Dalam Ilmu Kesehatan Masyarakat.* Health Analyst Study Program, College of Health Science Perintis Sumbar.
- Virgiawan, Fardhal. (2018). *Resensi Buku: Ilmu Pertahanan: Sejarah, Konsep, Teori dan Implementasi oleh Letjen TNI (Purn) Prof. Syarifudin Tippe, M.Si.* International Relations Study Program, Faculty of Social and Political Sciences, Jenderal Achmad Yani University.

Laws/Regulations

- Ketetapan Majelis Permusyawaratan Rakyat Republik Indonesia Nomor VI/MPR/2000 Tahun 2000 tentang Pemisahan Tentara Nasional Indonesia dan Kepolisian Negara Republik Indonesia.
- Undang – Undang Republik Indonesia Nomor 3 Tahun 2002 tentang Pertahanan Negara.
- Undang – Undang Republik Indonesia Nomor 11 Tahun 2008 tentang Informasi dan Transaksi Elektronik.
- Undang – Undang Republik Indonesia Nomor 12 Tahun 2012 tentang Pendidikan Tinggi.
- Undang – Undang Republik Indonesia Nomor 19 Tahun 2016 tentang Perubahan Atas Undang – Undang Nomor 11 Tahun 2008 tentang Informasi dan Transaksi Elektronik.
- Undang – Undang Republik Indonesia Nomor 27 Tahun 2022 tentang Perlindungan Data Pribadi.
- Peraturan Presiden Republik Indonesia Nomor 82 Tahun 2022 tentang Perlindungan Infrastruktur Informasi Vital.
- Peraturan Presiden Republik Indonesia Nomor 47 Tahun 2023 tentang Strategi Keamanan Siber Nasional dan Manajemen Krisis Siber.
- Peraturan Menteri Pertahanan Republik Indonesia Nomor 82 Tahun 2014 tentang Pedoman Pertahanan Siber.
- Keputusan Menteri Pertahanan Republik Indonesia Nomor Kep/104/M/I/2020 tentang Kebijakan Pertahanan Negara Tahun 2020.
- The Republic of Indonesia Defense University Rector Regulation Number 69 of 2021 on Thesis Writing Guidelines in The Republic of Indonesia Defense University.
- Surat Perintah Rektor Unhan Republik Indonesia Nomor Sprin/1620/V/2023 tanggal 31 Mei 2023 tentang Pembimbing Tesis Mahasiswa S-2 Prodi Rekayasa Pertahanan Siber Cohort-1 Fakultas Sains dan Teknologi Pertahanan Unhan RI TA. 2022/2023.
- Peraturan Kepala Arsip Nasional Republik Indonesia Nomor 17 Tahun 2011

tentang Pedoman Pembuatan Sistem Klasifikasi Keamanan dan Akses Arsip Dinamis.

Peraturan Badan Siber dan Sandi Negara Nomor 10 Tahun 2019 tentang Pelaksanaan Persandian untuk Pengamanan Informasi di Pemerintah Daerah.

Peraturan Kepala Lembaga Sandi Negara Nomor 10 Tahun 2012 tentang Pedoman Pengelolaan dan Perlindungan Informasi Berklasifikasi Milik Pemerintah.

Perjanjian Kerja Sama antara Tentara Nasional Indonesia Angkatan Laut dengan Badan Siber dan Sandi Negara Nomor PKS/32/VIII/2023 dan Nomor PERJ.395/BSSN/BS/HK.07.02/08/2023 tanggal 22 Agustus 2023 tentang Pemanfaatan Sertifikat Elektronik pada Sistem Elektronik di Lingkungan Tentara Nasional Indonesia Angkatan Laut.

Websites

Anonim. *Arti Ketahanan Nasional di Kamus Besar Bahasa Indonesia (KBBI)*. Retrieved from <https://kbbi.lektur.id/ketahanan-nasional>, access on August 21th, 2023 at 19.59 WIB

Anonim. *Table of Binary Numbers*. Retrieved from <https://www.convertbinary.com/numbers/>, access on September 1st, 2023 at 23.23 WIB.

Munir, Rinaldi. (2023). *Lecture Material Military Cryptography Technology Republic of Indonesia Defense University*. Retrieved from <https://informatika.stei.itb.ac.id/~rinaldi.munir/Unhan/2022-2023/kriptounhan22-23.htm>, access on September 4th, 2023 at 20.41 WIB.

Kumar Sahu, Aditya., and Sahu, Monalisa. (2020). "Digital Image Steganography and Steganalysis: A Journey of The Past Three Decades" *Open Computer Science*, Vol 10 No 1. Retrieved from <https://www.degruyter.com/document/doi/10.1515/comp-2020-0136/html>, access on September 5th, 2023 at 00.51 WIB/

- Navaid, Muhammad. (2021). *Image Segmentation Dataset*. Retrieved from <https://www.kaggle.com/datasets/mnavaid/image-segmentation-dataset>, access on April 10th, 2023 at 22.04 WIB.
- Tekno, Adik. (2023). *Jenis – Jenis File Komputer*. Retrieved from <https://followtekno.id/jenis-jenis-file-komputer/>, access on October 17th, 2023 at 02.47 WIB.